CHAIN OF CUSTODY RECORD

PROJ. 02AH5		PROJEC Cheshire			ng Study	,		NO			Activity Code: 12345
SAMPLERS: (Print Name and Sign) Mike Murphy Mike Morphy Mike Murphy C G G O R STA. NO. DATE TIME M A STATION LOCATION T				NO. OF	y t	e///	AIR 0207003				
STA. NO.	DATE	TIME	COMP	GRAB		STATI	ON LOCATION	CON- TAINERS	111/		TAG NUMBERS
D01	7/1	00:00			GHS			1			5-340248 1 to 1
S01	7/1	00:00	Х		GHS			1			5-340247 1 to 1
302	7/1	00:00	Х		RVHS			1			5-340249 1 to 1 00.10, Dur Failure 1 M.J.M
S03	7/1	00:00	X		ADDA	VILLE		1			5-340250 1 to 1
											GHS#3012 , PSTy Aug = 15,6
											GHS#3013, Psig Aug = 15.75
-											RUHS, Parg Aug = VoiD
											Addaville Psty Aug = 15.8
Relinquish		3ignature)	7-	Date /		Received by: (Sig	nature)			Ship To:
Relinquish	ed by: (S	Signature)		Date/	Time	Received by: (Sig	nature)			
											ATTN:
Relinquish	ed by: (8	Signature)		Date /	Time	Received for Laborat (Signature)	ory by:		e/Time 10216)40	Airbill Number UPS#12 401 199 01 4061 1967
							January.	5-140062		0210190	Chain of Custody Seal Numbers

Project No.	Project Name	CHESHIRE CUZ ARRI	MUNITUR	ZING STUNY	DUEDATE: 81	COOTA	
02AH56 A	IR 0207	UU3 ARRI	VM DATE!	111012002	DUEDATE: 81	9/2002	_
Sampler							
Mike Murphy							
Cooler ID	02AH561	Page 5-14006	62				
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers	_
02AH56D01	D01	01/07/2002 00:00:00	Grab Com	GHS	1	5-340248 1 to 1	
Bottle I	No. 1	Parameter PM10					
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers	
02AH56S01	S01	01/07/2002 00:00:00	○ Grab Com	GHS	1	5-340247 1 to 1	_
Bottle I	No. 1	Parameter PM10					
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers	
02 AH66S02	\$02	01/07/2002 00:00:00	Grab Com	RVHS	4	5-340249 1 to 1	- 14
Bottle I	No. 1	Parameter PM10					M
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers	_
02AH56S03	S03	01/07/2002 00:00:00	Grab Com	ADDAVILLE	1	5-340250 1 to 1	
Bottle I	No. 1	Parameter					

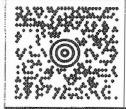
PM10

2 LBS 1 OF 1

FROM: SOUTHEAST DISTRICT OFFICE (740) 385-8501 OHIO EPA 2195 E. FRONT STREET LOGAN OH 43138-8637

SHIP TO:

WILLIAM SARGENT JR. **USEPA CENTRAL REGIONAL LABORATORY** 10 FLOOR 536 SOUTH CLARK STREET CHICAGO IL 60605



IL 606 9-08

UPS NEXT DAY AIR

TRACKING #: 1Z 401 199 01 4061 1967



BILLING: P/P

Fold here and place in label pouch

CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 0207003 CHESHIRE MONITORING

- Chain of Custody
- Transmittal Report w/signatures of the following:
 - Analyst(s)
 - **Environmental Data Coordinator**

Invoice # 3040918

Revised 8/6/02

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date:

AUG 0 8 2002

Subject:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY**

From:

Francis A. Awanya, Chemist

Region 5 Central Regional Laboratory

To:

Attached are the results for: **CHESHIRE MONITORING STUDY**

CRL work order number: 0207003

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2002AH56S01, 2002AH56D01, and

2002AH56S03.

+700 texposits acceptant to a resident and the recommendation of	Mp0 0/0 2002
Data Management Coo	ordinator and Date Received
Date Transmitted:	AUG 0 8 2002
	EPA Project Manager/Officer complete the Customer Satisfaction Survey, RL Sample Coordinator at 3-1226.
Please sign and date th	nis form below and return it with any comments to:
ž)	Sylvia Griffin Data Management Coordinator Region 5 Central Regional Laboratory ML-10C
0	/ /
Received by and Date	

Comments:

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
В	This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is <u>estimated</u> due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (<u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL <u>Method</u> Detection Limit (MDL) but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is <u>estimated</u> since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS Te <u>N</u> tatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or <i>Q</i> uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are <u>Rejected</u> and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag</u> .
U	This flag in used when the analyte was analyzed for but <u>U</u> ndetected in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.



Environmental Protection Agency Region 5

Central Regional Laboratory

536 South Clark Street, Chicago, IL 60605 Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER

0207003

US EPA Region 5 Central Regional Laboratory

Client: Air Division, US EPA Region 5

Project: Gavin, Cheshire. Ohio

Project Manager:

Marilyn Jupp

Project Number:

[none]

Report To:

Kathy Triantafillou Air Division, US EPA Region 5 77 West Jackson Boulevard Chicago, IL 60605

Phone: (312) 353-4775 Fax: (312) 353-2001

Printed: 7/30/02 2:55:50PM

Date Due:

Aug-10-02 15:00 (30 day TAT)

Received By:

William Sargent

Date Received:

Jul-10-02 16:49

Logged In By:

William Sargent

Date Logged In:

Jul-10-02 16:49

Samples Received at: All containers intact:

°C

No

Sample labels/COC agree:

No

Samples Preserved Properly: Custody Seals Present:

No No

Analysis	Due	TAT	Expires	Comments
0207003-01 2002AH56D01-GH				

PM10

Aug-08-02 12:00

28

Starts 8-3-01 Ends 8-3-02

Jul-31-02 00:00

0207003-02 2002AH56S01-GHS [Air Filter] Sampled Jul-01-02 00:00 Central GHS#3013, PSTG AVG=15.75

Aug-08-02 12:00

Jul-31-02 00:00

0207003-03 2002AH56S03-ADDAVILLE [Air Filter] Sampled Jul-01-02 00:00 ADDAVILLE, PSTG AVG=15.8

Central

PM10

Aug-08-02 12:00

28

Jul-31-02 00:00

Reviewed By

Date

Page 1 of 1

ENVIRONMENTAL PROTECTION AGENCY REGION V CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 07/01/2002 LAB ARRIVAL DATE: 07/10/2002 DUE DATE: 08/08/2002 DU NUMBER: 90101A WORK ORDER NUMBER: 0207003 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)			
144	2002AH56D01	GUIDING HANDS	0.0820			
2	2002AH56S01	GUIDING HANDS	0.0814			
4	2002AH56S03	ADDAVILLE	0.0853	THE PARTY LOCALISMS CO. T. C.	1	
DATE O	F ANALYSIS		07/26/2002			
AN	ALYST		FAA			

Page 1 of 1

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and Ino	rganic Group	Pageof

ATTACHMENT II

CRL Analytical and Inorganics Data Review Checklist

Batch Number: 0207001, ~7002, 7004 Facility: CHESHIRE MONTORING STUDY

Parameter: SUSPENDED SOLIDS CRL.SOP: AIGO 47

	YES	NO
Raw Data Package Complete?	V	
Results Reported Correctly?	1	
Special Requests Done?	N/A	
Calculations Checked?	V	
Calibration Not Exceeded?	N/A	
Manual Peak Integration performed? Circle one IC or GC and Check	N/A	
Field QC Checked?	N/A	
Quality Control:	(10)	
Holding Times Met?	N/A	
Preservation Checked?	N/A	
Proper Digestion Verified?	N/A	
Initial Instrument Performance Checks Verified?	V	
Calibration Verification Checked?	NIA	
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	NIA	
Matrix QC Checked?	N/A	
Digestion Blanks Checked?	N/A	
Spiked Blank Checked?	NIA	
LCS (if applicable) Checked?	NIA	
QCS (if applicable) Checked?	NIA	
Final Check		
Technical Review Done?	V	
Narrative Complete?	V	
Analyst: FAA. Peer Reviewer: #		
Date: 7/31/2002 Date: 08/01/02		
Comments Attached? (Y/N)		

Data Set Number:	0207003	Parame	ter:	Suspended Particles
Facility Name:	CHESHIRE MONITOR	ING STUDY		
Study Name:	CHESHIRE MONITOR	ING STUDY		
Date of Narrative:	07/30/2002	Analyst:	FAA_	<u> </u>
Prepared by:	FAN	_ Signature: _	FA	14

ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on July 10, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q8609535	2002AH56D01	5-340248-1
Q8609536	2002AH56S01	5-340247-1
Q8609538	2002AH56S03	5-340250-1

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 07/23/2002 and was completed on 07/26/2002. All exposed filters were in good conditions. No sampler serial number was provided by the field for filter G8609538 (CRL Sample I.D 2002AH56S03).

Holding time was incorrectly calculated in CRL LIMS and reported on work order form 0207003 to be July 31, 2002. PM10 analysis has no set holding time in the SOP used.

QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS:

All the sample results are acceptable for use.

ELECTRONIC DATA:

No electronic data.

CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Work Order Numbers: 0207001, 0207002, 0207003, 0207004

Date of Analysis 07/26/2002

Analyst:

FAA

BALANCE VERIFICATION:

Sandard Weights	Balanced weight	Differences (g)	
Actual (g)	Balanced (g)		
		Limit +/-0.0005 g	
1.0000	1.0001	-0.0001	
2.0000	2.0000	0.0000	
5.0000	5.0000	0.0000	

QC-SUMMARY FOR EXPOSED FILTERS

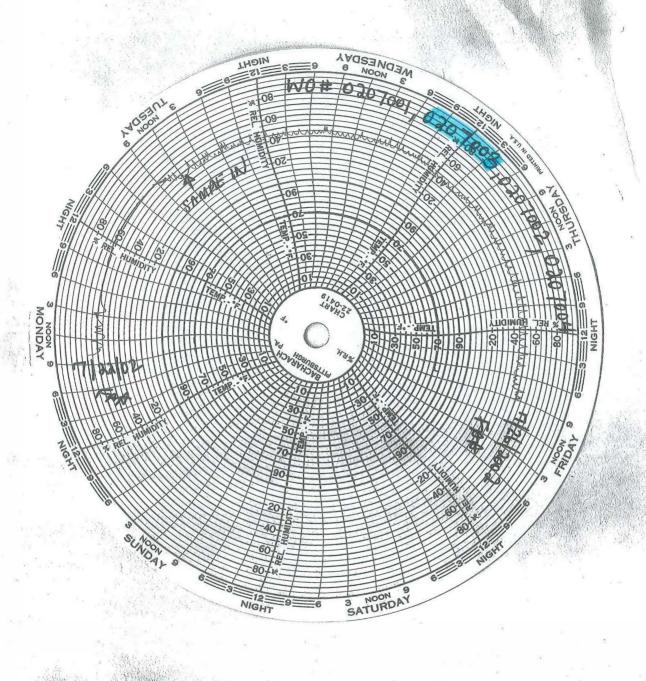
Filter ID	CRL Sample	Sampling	ANALYST	Exposed	
Number	I.D Number	Date		weight (g)	
Q8609541	2002AH57S03	07/07/02	Analyst 1	4.4431	
Q8609541	2002AH57S03	07/07/02	Analyst 2	4.4430	
Differences (Limit +/-	- 5 mg)			0.0001	
Q8609548	2002AH54D01	06/19/02	Analyst 1	4.4291	
Q8609548	2002AH54D01	06/19/02	Analyst 2	4.4292	
Differences (Limit +/-	- 5 mg)			-0.0001	
Q8609552	2002AH54S02	06/19/02	Analyst 1	4.4318	
Q8609552	2002AH54S02	06/19/02	Analyst 2	4.4318	
Differences (Limit +/-	- 5 mg)	,,,,,,,		0.0000	

CHESHIRE AIR MONITORING PROJECT PM10

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
	The second secon		BOST CHEST AND THE			g kesser				ir a da Millej	
Work Order	r Number 0207001						-1				
Q8609548	2002AH54D01	06/19/02	Guiding Hands School	3013	15.55		0.00	4.3659	4.4291	0.0632	ERR
Q8609547	2002AH54S01	06/19/02	Guiding Hands School	3012	15.85		0.00	4.3662	4.4304	0.0642	ERR
G8609552	2002AH54S02	06/19/02	RVHS	_	16.10		0.00	4.3665	4.4318	0.0653	ERR
Q8609549	2002AH54S03	06/19/02	Addaville	-	15.75		0.00	4.3849	4.4356	0.0507	ERR
Work Order	r Number 0207002										
Q8609531	2002AH55D01	06/25/02	Guiding Hands School	3013	15.90		0.00	4.3346	4.3745	0.0399	ERR
Q8609532	2002AH55S01	06/25/02	Guiding Hands School	3012	15.80		0.00	4.3574	4.3996	0.0422	ERR
G8609533	2002AH55S02	06/25/02	RVHS	-	16.30		0.00	4.3820	4.4179	0.0359	ERR
Q8609534	2002AH55S03	06/25/02	Addaville	-	16.00		0.00	4.3544	4.4460	0.0916	ERR
Work Order	Number 0207003										
Q8609535	2002AH56D01	07/01/02	Guiding Hands School	3013	15.95		0.00	4.3563	4.4383	0.0820	ERR
Q8609536	2002AH56S01	07/01/02	Guiding Hands School	3012	15.60		0.00	4.3340	4.4154	0.0814	ERR
Q8609538	2002AH56S03	07/01/02	Addaville		15.80		0.00	4.3530	4.4383	0.0853	ERR
Work Order	r Number 0207004										
Q8609539	2002AH57D01	07/07/02	Guiding Hands School	3013	15.70		0.00	4.3775	4.4191	0.0416	ERR
Q8609540	2002AH57S01	07/07/02	Guiding Hands School	3012	15.80		0.00	4.3896	4.4373	0.0477	ERR
G8609537	2002AH57S02	07/07/02	RVHS	-	16.20		0.00	4.3840	4.4367	0.0527	ERR
Q8609541	2002AH57S03	07/07/02	Addaville	-	15.95		0.00	4.3922	4.4431	0.0509	ERR

W0#0207003

FILTER	TARE	DUP	EXPOSED	EXPOSED	COMMENTS
[I.O.	wt	hot	wt	WELDEP	
	(8)	(9)	(g)	(9)	81
6	9 -	0,	0,	0 /	DI
98609531	4.3346		4.3745		81
Q8609532	4.3574		4.3996		Teor-But 06
08609533	4.3820		4.4179		Ost
Q8609534	4-3544		4.4460	2	.06
Q8609535	4.3563		4.4383		J.06
Q8609536	4.3340		4.4154		3. 9t
Q8609537	4-3840	00 m # 01 0000 - 1000 -	4.4367		1.96
Q8609538	4.3530		4.4383		1, 91
0.8609539	4.3775		4.4191) 91
Q8609540	4-3896	4.3893	4.4373	,	. 96
Q8609541	4.3922		4.4431	4.443012	
9 08609542	The state of the s		When the present of the transfer of the second of the seco		1. 86
Q8609543	4.3893		and the state of t		.96:
08609544	4.3942		PARTITION OF ABOUT THE ANGEST AND ANGEST AND ANGES		. 96:
Q8609545	4.3801		The second secon	en soe v sind a savan.	, 96
0.8609546	4.3690		A CONTROL OF THE CONT		,06:
Q8609547	4-3662	4.4304	4.4304		96
Q8609548	4.3659	4.4291	4.4291	414792 18	:06:
Q86095A9	4-3849	Marine extraor experience and the state of t	4.4356		. 06
Q8609550	4.3860	4.3863	Charles and a confirmation of a confirmation of the confirmation o	State of the second sec	:06
0.8609551	4.3948	4.4399	Market constant Constraint (Market Springs Report to the con-		.06.
0.8609552	4.3665	4.4318	4.4318	41.4318 12	965
08609553	4.4153	4.4616	MATERIAL TO A COME WATER TO SEE		,06.
Q860955A	4.3975	4.4435	Approximate the second		,065
					96



WO# 0207003

GENERAL	STANDARD WEIGHTS	BALANCED WEIGHTS
SARTORIOUS SAN	1. 0 0 00	1 : 000 l
S/N 37010119		2.000
5AA 7/26/02	5,0000	5.0000

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CONNENLS: Ot-Ma ACTUAL CLS **SAMPLE WT** TOTAL FLOW uim/"m ELOW бишш TW JAITINI **SSBHU BMIT GASAAJA FINAL WT** TEMP Zo. AVG. RECORDER RESP. dSL AIVO **HOTARBRO** OF-Md SUIV **US EPA Region 5 Field Sample** Parameters PM10 AIR 0207 003 Preservative None SMMDBD Sample ID 02AH56D01 Sampler Mike Murry

COMMENLS: 015ACTUAL eW/6n OI-Md HOTH uim/*m TOTAL FLOW SAMPLE WT бишш Ohhl ELAPSED TIME **bbeez** NIMUTES TW JAITIMI AVG. RECORDER RESP LEND 20 FINAL WT 3956038D dSL 3113 01-Wd POTARIO COLORO O-1-7 BTAC SHIV US EPA Region 5 Field Sample Parameters PM10 AIR 0207003 SMMDBD Preservative None Sample ID 02AH56S01 Χ Sampler Mike Muy

S M MD B D

Preservative None Sample ID 02AH56S03

AIR CACT COS Parameters PM10

US EPA Region 5 Field Sample

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OPERATOR OF NO

STR AQUILLE

ELAPSED TWE 140

AVG. RECORDER RESP. 10.3

MOT

T T T O

TEMP

IN TVILIN

FINAL WT

m SAMPLE WI

MOTAL TROM

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EPA 2308/AEVISED 10/01)

CWWNNIV.